

U.S. Patent Application Serial No. 09/486,341
Atty. Docket No. 000104

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled):

Claim 2 (Canceled):

Claim 3 (Canceled):

Claim 4 (Canceled):

Claim 4 (Canceled):

Claim 5 (Canceled):

Claim 6 (Canceled):

Claim 7 (Canceled):

Claim 8 (Canceled):

Claim 9 (Canceled):

Claim 10 (Canceled):

SJ **Claim 11 (Currently Amended):** A financial transactions modeling apparatus for modeling a transaction sequence settled by settling financial transactions in a predetermined transaction period, comprising:

one or more unit transaction modeling means comprising:

unit transaction information storage means, provided at each of a receipt side and a payment side of the financial transactions for one or more unit transaction period obtained by dividing the predetermined transaction period for each receipt or payment, for individually storing information about a unit transaction, and

current price evaluation operation means in the unit transaction period; and

transaction sequence modeling means comprising[[]]]

reference information storage means for holding a reference information group for reference to said unit transaction modeling means corresponding to each of a receipt side and a payment side of the financial transactions, and

transaction sequence characteristic computation means for sequentially referring to said unit

transaction modeling means from the reference information group in each of the receipt side and the payment side of the financial transactions at a predetermined instruction, performing the current price evaluation operation means and obtaining operation results, and computing a characteristic of the transaction sequence based on each of the operation results.

a 1

Claim 12 (Currently Amended): The apparatus according to claim 11, wherein said predetermined transaction period is only a predetermined point in time.

Claim 13 (Currently Amended): The apparatus according to claim 11, wherein said financial transactions are financial goods other than a currency[[;]].

Claim 14 (Original): The apparatus according to claim 11, wherein said unit transaction modeling means is implemented as a list structure.

Claim 15 (Original): The apparatus according to claim 11, wherein:
said unit transaction modeling means is a module for holding as a class member a parameter for use in a current price evaluating operation performed by said unit transaction information storage means in the unit transaction period, holding the current price evaluation operation means as a

method, and operating an instance of a predetermined class in an object-oriented concept; and
said transaction sequence modeling means is a module for holding as a list member a
reference information group in each of a receipt side and a payment side of the financial transactions,
holding the transaction sequence characteristic computation means as a virtual method, and operating
an instance of a predetermined container class in the object-oriented concept.

Claim 16 (Original): The apparatus according to claim 11, wherein

a current price evaluation operation means of said unit transaction modeling means performs
a current price evaluating operation based on a future value index computed based on any of three
types of indices of an interest, an earning rate, and a price in the unit transaction period
corresponding to said unit transaction modeling means, and an evaluation value independent of any
indices of the interest, the earning rage, and the price.

Claim 17 (Original): The apparatus according to claim 16, wherein

a current price evaluation operation means of said unit transaction modeling means comprises
discount rate multiplication means obtains as a current price evaluating operation result a current
value by multiplying a current price evaluating operation performed by the current price evaluation
operation means by a predetermined discount rate.

Claim 18 (Original): The apparatus according to claim 11, further comprising:

user interface means for computing one or more unit transaction periods by dividing the predetermined transaction period for each receipt or payment based on a setting of date information, generating the unit transaction modeling means for each computed unit transaction period on each of a receipt side and a payment side of the financial transactions, and generating a reference information group in said transaction sequence modeling means corresponding to each of the receipt side and the payment side.

Claim 19 (Original): The apparatus according to claim 11, further comprising:

user interface means for changing a parameter for financial transactions to be modeled for each unit transaction modeling means, and issuing a predetermined instruction in response to the change.

Claim 20 (Original): The apparatus or a financial transactions modeling apparatus according to claim 11, further comprising:

financial characteristic computation means for computing financial characteristics in each current price evaluating operation performed by said current price evaluation operation means, and providing each current price evaluation operation means with the financial characteristics.

Claim 21 (Original): The apparatus according to claim 20, wherein:

said financial characteristic computation means is a module for modeling the financial

characteristics, and operating an instance of a predetermined class in an object-oriented concept; and
said current price evaluation operation means contains reference information, contained in the
instance of the predetermined class, for reference to a predetermined method for computing the
financial characteristics.

Claim 22 (Original): The apparatus according to claim 20, wherein:

said financial characteristic computation means comprises:
a plurality of single financial characteristic computation means for computing a plurality of
single financial characteristics in each current price evaluating operation performed by said current
price evaluation operation means;

virtual financial characteristic computation means for computing a new virtual financial
characteristic by combining said plurality of single financial characteristics, and providing said
virtual financial characteristic for said current price evaluation operation means.

Claim 23 (Original): The apparatus according to claim 20, wherein

said single financial characteristic computation means is a module for modeling each unit
financial characteristic, and operating each instance of a plurality of predetermined classes in the
object-oriented concept;

said virtual financial characteristic computation means is a module for operating an instance
of a predetermined super class inherited by the plurality of predetermined classes; and

said current price evaluation operation means contains reference information, stored by the instance of the predetermined super class for reference to a predetermined method for computing the virtual financial characteristics.

Claim 24 (Currently Amended): The apparatus according to claim 20, wherein

A2
said financial characteristics are data items obtained on a real time basis [features to be] input through a network.

Claim 25 (Original): The apparatus according to claim 20, further comprising:

financial characteristic definition means for defining the financial characteristics.

Claim 26 (Canceled):

Claim 27 (Canceled):

Claim 28 (Canceled):

Claim 29 (Canceled):

Claim 30 (Canceled):

Claim 31 (Canceled): ✓

Claim 32 (Canceled): ✓

Claim 33 (Canceled): ✓

Claim 34 (Canceled): ✓

Claim 35 (Canceled): ✓

Claim 36 (Canceled): ✓

Claim 37 (Original): A computer-readable storage medium for storing a program used and read by a computer for performing:

one or more unit transaction modeling function, implemented for one or more unit transaction period obtained by dividing a predetermined transaction period for each receipt or payment on each of a receipt side and a payment side of financial transactions settled by settling the financial transactions in the predetermined transaction period, for performing a current price evaluating operation in the unit transaction period; and

U.S. Patent Application Serial No. 09/486,341
Atty. Docket No. 000104

transaction sequence modeling function for holding a reference information group for reference to said unit transaction modeling function corresponding to each of a receipt side and a payment side of the financial transactions, sequentially referring to said unit transaction modeling function in the reference information group in each of the receipt side and the payment side of the financial transactions at a predetermined instruction, performing the current price evaluation operation, obtaining operation results, and computing a characteristic of the financial transactions based on each of the operation results.

Claim 38 (Canceled):